

Percentages

1. Write each as a fraction.

(a) 34% (b) 43% (c) 79% (d) 5% (e) 7% (f) 1 %

2. For each percentage, write the equivalent fraction in simplest form.

(a) 30% (b) 70% (c) 90% (d) 15%

(e) 36% (f) 48% (g) 14% (h) 52%

(i) 5% (j) 8%

Percentage	Fraction
1%	
5%	
10%	
20%	
25%	
	$\frac{1}{3}$
	$\frac{1}{2}$
	$66\frac{2}{3}\%$
100%	

3. Copy and complete this table. ----→ → → → → → →

4. Without a calculator, calculate:

(a) 50% of £36 (b) 25% of £840

(c) 20% of £12 (d) 10% of 55 g

(e) 1% of 3 200 kg (f) $66\frac{2}{3}\%$ of £45

(g) 75% of 32 cm (h) $33\frac{1}{3}\%$ of 285 g (i) 5% of 840 mm

5. Without a calculator, calculate:

(a) 3% of 400 g (b) 4% of 1 200 kg (c) 7% of £500

(d) 8% of £360 (e) 6% of 220 g (f) 4% of 700 cm

(g) 2% of £2 600 (h) 9% of 600 cm

6. Without a calculator, calculate:

(a) 40% of £520 (b) 30% of 82 m (c) 70% of £36

(d) 90% of 250 g (e) 20% of 450 mm (f) 60 % of 120 m

(g) 30% of 150 cm (h) 40% of 20 g (i) 80% of £70

7. Without a calculator, calculate the new price
- (a) 10% off, jacket priced at £85 (b) $33\frac{1}{3}$ % off, car priced at £4 500
- (c) 20% off, shirt priced at £55 (d) 25% off, book priced at £12
8. Without a calculator, calculate the new price
- (a) 25% increase, computer priced at £840
- (b) 5% increase, fridge priced at £360
- (c) $66\frac{2}{3}$ % increase, house priced at £27 000
9. Using a calculator, calculate:
- (a) 63% off £124 (b) 19% of £5 200 (c) 32% of 180 m
- (d) 15% of 36 g (e) 7% of 49 kg (f) 4% of 195 cm
- (g) 46% of £39 (h) 29% of 980 mm (i) 6% of £450
- (j) 16% of £225 (k) 38% of £472 (l) 9% of £578
10. Using a calculator, find the new cost
- (a) Coat priced at £155, to be reduced by 45%
- (b) Weed-killer costing £24, discount of 8%
- (c) Bill of £86, to add a service charge of 12%
11. Change each fraction to a percentage
- (a) $\frac{9}{20}$ (b) $\frac{15}{60}$ (c) $\frac{8}{50}$ (d) $\frac{4}{25}$ (e) $\frac{7}{20}$ (f) $\frac{15}{30}$ (g) $\frac{18}{72}$
12. A holiday representative has listed the activity choices for a group of tourists.
- | | | | | | | | |
|-----------|----|--------|----|-------------|----|--------|----|
| Boat trip | 32 | Market | 12 | Beach party | 16 | Castle | 20 |
|-----------|----|--------|----|-------------|----|--------|----|
- (a) Calculate the total number of tourists
- (b) Calculate the percentage choosing each activity
13. 52 pupils have chosen social subjects as shown
- | | | | | | |
|---------|----|-----------|----|----------------|----|
| History | 96 | Geography | 60 | Modern Studies | 84 |
|---------|----|-----------|----|----------------|----|
- Calculate the percentage choosing each subject
14. Michael scored $\frac{17}{25}$ in his science test. What is this as a percentage?